Ministry of Northern Development and Mines

Ontario

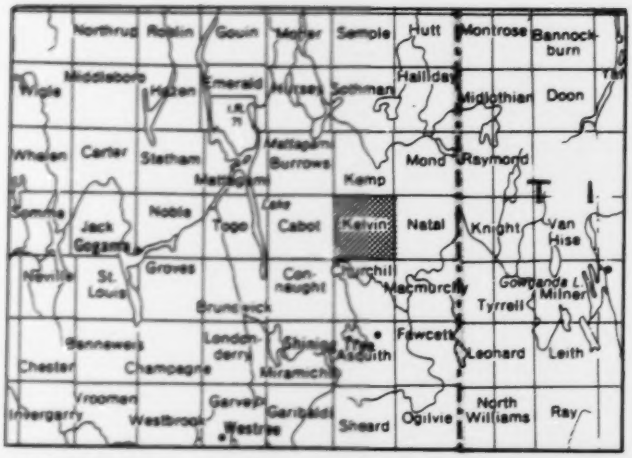
Mines and Minerals Division

ONTARIO GEOLOGICAL SURVEY

GEOLOGICAL DATA INVENTORY FOLIO 500

KELVIN TOWNSHIP

Compiled by the Staff of
the Resident Geologist's Office
Cobalt



LOCATION MAP Scale: 1:1 013 760 or 1 inch to 16 miles

CANADA ONTARIO Mineral Development Agreement Exploration Minérale

This project is part of the five year Canada–Ontario 1985 Mineral Development Agreement (COMDA), a subsidiary agreement to the Economic and Regional Development Agreement (ERDA) signed by the governments of Canada and Ontario.

90-04117/

NTS Number 41P/11 and 41P/14

Mining Claim Map Number M.964

This project was funded under the Canada-Ontario Mineral Development Agreement (COMDA)

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey 1990. Kelvin Township, Geological Data Inventory Folio 500; compiled by the staff of the Resident Geologist's office, Cobalt.

Original Compilation by: Patricia Anderson, January 19, 1989

Date	Page Revised	Revised by

Date	Page Revised	Revised by

KELVIN TOWNSHIP

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

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ACCOMPANYING MAPS

Property Location Map 1
Exploration Data Map 1
Map Scale 1: 31 680 or 1 inch to ½ mile

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	D.P.A.
2	Assessment Files Research Office, Toronto	Yes	D.P.A.
3	ODM General Index; 9 Volumes	Yes	D.P.A.
4	Catalogue of Airborne Geophysical Surveys (ODM)	Yes	D.P.A.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	Yes	D.P.A.
6	ODM Industrial Mineral Reports	No	D.P.A.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	D.P.A.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	No	D.P.A.
9	Newspaper Clippings File	No	D.P.A.
10	GSC Index to Publications	Yes	D.P.A.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	D.P.A.
12	OGS Index Maps	Yes	D.P.A.
13	Source Mineral Deposit Records (O.G.S.)	No	D.P.A.
14	Author - Subject Articles File	No	D.P.A.
15	Miscellaneous Papers: ODM & OGS	Yes	D.P.A.
16	ODM Geological Circulars: OGS Study Series	Yes	D.P.A.
17	ODM Preliminary Reports: ODM Bulletins	Yes	D.P.A.
18	ODM – OGS Open File Reports	Yes	D.P.A.
19	OGS Northern Ontario Engineering Geology Terrain Studies	Yes	D.P.A.
20	OGS Aggregate Resources Inventory Papers	N.A.	D.P.A.
21	OGS Mineral Potential Maps	No	D.P.A.
22	Theses on File, Cobalt	No	D.P.A.
23	Aerial Photographs on File, Cobalt	Yes	D.P.A.

METALS AND MINERALS REFERENCES LIST

△ anh. . . . . .Anhydrite	▲ fu. . . . . .Fuchsite	▲ Ni. . . . . Nickel	△ st. . . . . .Stone
△ ank. . . . . .Ankerite	△ gn. . . . . Galena	△ Nb . . . . . .Niobium	△ talc. . . . . .Talc
△ anna . . . . . Annabergite	△ gt . . . . . Garnet	△ Pd . . . . . .Palladium	△ Te . . . . . .Tellurium
△ ap. . . . . .Apatite	△ goe . . . . . .Goethite	△ peat . . . . . .Peat	△ td. . . . . Tetrahedrite
△ arg . . . . . Argentite	▲ Au . . . . . Gold	△ pent . . . . . .Pentlandite	△ th. . . . . .Thorite
△ As . . . . . .Arsenic	▲ gf . . . . . .Graphite	△ Pt. . . . . .Platinum	△ Th . . . . . .Thorium
△ asp . . . . . .Arsenopyrite	△ gl . . . . . Gravel	▲ py . . . . . .Pyrite	△ thuc . . . . . Thucholite
△ asb . . . . . .Asbestos	△ gyp. . . . . Gypsum	△ pyl . . . . . Pyrochlore	△ ti . . . . . Titanite
△ ba. . . . . .Barite	△ hem . . . . . Hematite	△ pyrl . . . . . .Pyrolusite	△ Ti. . . . . Titanium
△ be. . . . . .Beryl	△ il . . . . . .Ilmenite	△ po . . . . . .Pyrrhotite	△ tour . . . . . .Tourmaline
△ Bi. . . . . .Bismuth	△ Fe . . . . . .Iron	△ q . . . . . .Quartz	△ trap . . . . . .Trap rock
△ bn . . . . . .Bornite	△ IF. . . . . Iron Formation	△ qcv . . . . .Quartz carbonate vein	△ W. . . . . Tungsten
△ bran . . . . . .Brannerite	△ jas . . . . . Jasper	△ ra. . . . . .Radioactive minerals	△ uran . . . . . Uraninite
△ bruc . . . . . .Brucite	△ kaol . . . . . .Kaolinite (kaolin)	△ RE . . . . . .Rare Earths	△ U . . . . . .Uranium
△ Cd . . . . . Cadmium	△ ky . . . . . Kyanite	△ sd. . . . . Sand	△ verm . . . . . .Vermiculite
△ calc. . . . . Calcite	▲ Pb . . . . . Lead	△ sgl . . . . . Sand and gravel	△ Y . . . . . Yttrium
△ carb . . . . . .Carbonate	△ lim . . . . . Limonite	△ ss . . . . . .Sandstone	▲ Zn . . . . . .Zinc
△ cel . . . . . .Celestite	△ Li. . . . . Lithium	△ scap . . . . . Scapolite	△ zr. . . . . Zircon
△ cc. . . . . .Chalcocite	△ mgst . . . . . .Magnesite	△ shee . . . . . .Scheelite	
△ cp. . . . . .Chalcopyrite	△ mag . . . . . .Magnetite	△ serp . . . . . Serpentine	
△ ch. . . . . .Chert	△ mc . . . . . .Malachite	△ sh. . . . . .Shale	
△ clay . . . . . .Clay	△ Mn . . . . . Manganese	△ sid . . . . . Siderite	
▲ Co . . . . . Cobalt	△ mb . . . . . .Marble	△ si . . . . . .Silica	
△ cob. . . . . Cobaltite	△ mar. . . . . Marcasite	▲ Ag . . . . . .Silver	
△ cb. . . . . .Columbite	△ ma . . . . . .Marl	△ sl . . . . . Slate	
▲ Cu . . . . . .Copper	△ mi . . . . . Mica	△ sm . . . . . .Smaltite	
△ cor . . . . . Corundum	△ ml . . . . . .Millerite	△ sod . . . . . .Sodalite	
△ dol . . . . . Dolomite	△ mo . . . . . Molybdenite	△ spec . . . . . Specularite	
△ ep. . . . . Epidote	△ Mo . . . . . .Molybdenum	△ sp. . . . . .Sphalerite	
△ ery . . . . . Erythrite	△ mon . . . . . Monazite	△ spd . . . . . .Spodumene	
△ fel . . . . . .Feldspar	△ ne. . . . . Nephelite (nepheline)	△ staur . . . . . .Staurolite	
△ fl . . . . . .Fluorite (flurospar)	△ nc. . . . . .Niccolite	△ stib. . . . . Stibnite	

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps or listed in Drillhole Summary.

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MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A.	Timiskaming Occurrence	Au		MDC 18, p.107	Kelvin Tp., AF: Paymaster Consolidated Mines Ltd. Timiskaming Nickel Ltd. ODM, 1976, Map P.1105

GDIF FORM NO. 1

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																			
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																					
1	Timiskaming Nickel Ltd., Knight, Tyrrell, Natal, Raymond, MacMurchy & Kelvin Tps.				67 71	71				68		68									
2	Talisman Mines Ltd. Kelvin & Natal Tps. AFRO #63.2268											67	67								
3	Paymaster Consolidated Mines Ltd.				57 58	57 58															
4	Hudson Bay Oil & Gas Mining Ltd. Kelvin & Kemp Tps. Road Group	75			75								75								

GDIF FORM NO. 2

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
1	Timiskaming Nickel Ltd.	K-1	1967	090	-45	17	502	gf	
		K-2	1967	270	-45	23	600	gf, py	
2	Timiskaming Nickel Ltd.	K-3	1967	090	-45	16	571	gf	
3	Timiskaming Nickel Ltd.	K-4	1967	090	-45	16	506		
4	Timiskaming Nickel Ltd.	SO-TF-1-71-1	1971	104	-45	36	348	gf, py	Cu, Pb, Zn, Au
		SO-TF-1-71-4	1971	284	-45	30	505	gf, py	Au, Ag, Cu, Zn, Pb
5	Timiskaming Nickel Ltd.	SO-TF-1-71-2	1971	104	-45	69.6	629	gf, py	Au, Ag
6	Timiskaming Nickel Ltd.	SO-TF-1-71-5	1971	104	-45	65.4	507	gf, py	Au, Ag, Cu, Zn, Pb
7	Paymaster Consolidated Mines Ltd.	K-1	1957	302	-35	5	559	fu, gf, py	Ni, Au
8	Paymaster Consolidated Mines Ltd.	K-2	1957	085	-50	12	578	gf, py, fu	?

GDIF FORM NO. 3

TYPE OF WORK

Numbers below represent the year in which the work was done; e.g., 68 for 1968.

	EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE Cobalt — COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
5	Gail Resources Inc. Churchill and Kelvin Tps.								84-85	84-85		84								
6	Marshall Minerals Corp. Churchill and Kelvin Tps.								84	84		84								

GDIF FORM NO. 2

KELVIN TOWNSHIP

NOTES AND ADDENDA

The exploration data map shows only the most important minerals found at each site. All the minerals noted are listed in the mineral occurrences or the drill hole data.

On the maps, only the areas for which work has been submitted to the Ministry are shown and thus a company may hold, or have held in the past, more ground than is shown.

No present or past producers.

AIR PHOTOS - on File in Cobalt

1" = ¼ mile for 1959 and 1970

Air photos can be viewed at or purchased from the Public Service Centre, Room 1640, Whitney Block.

GDIF FORM NO.10

KELVIN TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
9	Paymaster Consolidated Mines Ltd.	K-3	1957	100	-45	40	557	gf, py, fu	?
10	Paymaster Consblidated Mines Ltd.	5	1958	130	-45	9	571	py	?
11a	Hudson Bay Oil & Gas Mining Ltd.	SS-75-2	1975	050		8	166	py, gf	Au, Ag Cu, Pb, Zn, Ni, Co
b		SS-75-2a	1975	240		31	351	py, gf	Au, Ag Cu, Pb, Zn, Ni, Co
12	Hudson Bay Oil & Gas Mining Ltd.	SS-75-3	1975	110		22	270	py, gf	Au, Ag Cu, Zn, Pb, Ni, Co
13	Hudson Bay Oil & Gas Mining Ltd.	SS-75-4	1975	225		19	203	py, gf	Au, Ag, Cu, Zn, Pb, Ni, Co

GDIF FORM NO. 3

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By / For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
1	By: Lockwood Survey Corp. Ltd. For: Timiskaming Nickel Ltd. 1968	Electromagnetic & Magnetic	200'	E/W	330'
5	By: Terraquest Ltd. For: Gail Resources Inc. 1985	Electromagnetic & Magnetic	100m	N/S	100m
6	By: Terraquest Ltd. For: Marshall Minerals Corp. 1984	Electromagnetic & Magnetic	100m	N/S	100m

GDIF FORM NO. 4

KELVIN TOWNSHIP

GEOCHEMICAL SURVEY DATA

Map Sample Site Reference Number	Type of Survey	Analysis For	By	Reference
	No data available as of	January 19, 1989.		

GDII FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result
	No data available as of January 19, 1989.			

GCIS FORM NO. 4

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office, Cobalt.

No data available as of January 19, 1989.

ODM GENERAL INDEX SEARCH

Words searched:

Big Four Creek
Big Four Lake
Claw Creek
Gail Resources Inc.
Grassy Road
Hudson Bay Oil & Gas
Mining Ltd.
Kelvin Creek
Kelvin Lake
Kelvin Township
Marne Creek
Marne Lake
Marshall Minerals Corp.

Index Volume	Listing:	Report Volume	Part	Page
2	Big Four Lake, Kelvin & Natal Tps.			
	Rocks. See map 35j with	*35	6	
	Grassy River area, Sudbury			
	Report, with map, by T.L. Gledhill	*35	6	57-82
	Kelvin Tp., Sudbury			
	Map. See Map 35j with	*35	6	
	Rocks, structure	*35	6	79,80
	Marne creek and Lake, Grassy river			
	Keewatin rocks. See map 35j with	*35	6	
6	Paymaster Consolidated Mines Ltd.			
	See also Empire Gold Mines			
	Capital; officers; operations (1955)	65	2	69-72
	(1956)	66	2	70-73
	(1957)	67	2	75-85
	(1958)	68	2	52
	(1959)	69	2	51-53
	Dividends (to 1956)	66	1	15
8	Kelvin & Cabot Tps., Sudbury District			
	summary of field work, 1975 by M.W. Carter	MP 63		76-79
	Paymaster Consolidated Mines, Ltd.			
	Kelvin Tp., Sudbury District	MP 63		77,78

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Paymaster Consolidated Mines Ltd.
Timiskaming Nickel Ltd.
Upper Grassy Lake

Index Volume	Listing:	Report Volume	Part	Page
8	Timiskaming Nickel Ltd.			
	Natal Tp. area, Timiskaming & Sudbury Districts	MP 18 MP 59 MP 63		7 111,112 77,78
9	Big Four Lake,			
	Macmurchy Tp., Sudbury District	GR 152		13-34 passim 38
	Big Four Locations			
	Macmurchy Tp., Sudbury District			
	report on properties	GR 152		58
	Kelvin Tp., Sudbury District			
	gold	MDC 18		107

* Out of Print

GDIP FORM NO. 8

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Carter, M.W.	1980	Shining Tree Area, NTS 41P/11, Timiskaming & Sudbury Districts, Ontario	OGS Map P.2313	1:50 000
Carter, M.W.	1981	Shining Tree Area, NTS 41P/11, Timiskaming & Sudbury Districts, Ontario	OGS OFR 5346	
Carter, M.W.	1981	Geology of Cabot and Kelvin Townships, NTS 41P/11N, Sudbury District, Ontario	OGS OFR 5348	
Carter, M.W.	1986	Geology of Cabot and Kelvin Townships, NTS 41P/11N, Sudbury District	OGS Report 249	
Carter, M.W.	1984	Cabot and Kelvin Townships, NTS 41P/11N, Sudbury District	OGS Map 2470	1:31 680
Closs, L.G.	1975	Geochemical Distribution of Zn in B Horizon Soils & Till Components in Parts of Kelvin + 3 AL Tps., NTS 41P/11, Sudbury District, Ontario	ODM Map P.1003	1:31 680
Closs, L.G.	1975	Geochemical Distribution of Ni in B Horizon Soils & Till Components in Parts of Kelvin + 3 AL Tps., NTS 41P/11, Sudbury District, Ontario	ODM Map P.1004	1:31 680
Closs, L.G.	1975	Geochemical Distribution of Co in B Horizon Soils & Till Components in Parts of Kelvin + 3 AL Tps., NTS 41P/11, Sudbury District, Ontario	ODM Map P.1005	1:31 680
Closs, L.G.	1975	Geochemical Distribution of Cu in B Horizon Soils & Till Components in Parts of Kelvin + 3 AL Tps., NTS 41P/11, Sudbury District, Ontario	ODM Map P.1006	1:31 680

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Closs, L.G.	1975	Geochemical Distribution of Cr in B Horizon Soils & Till Components in Parts of Kelvin + 3 AL Tps., NTS 41P/11, Sudbury District, Ontario	ODM Map P.1007	1:31 680
Closs, L.G.	1975	Geochemical Distribution of Mn in B Horizon Soils & Till Components in Parts of Kelvin + 3 AL Tps., NTS 41P/11, Sudbury District, Ontario	ODM Map P.1008	1:31 680
Closs, L.G. Sado, E.V.	1975	Exploration Geochemistry-Quaternary Geology Investigations in Parts of Halliday + AL 5 Tps., NTS 41P/N, Sudbury & Timiskaming Districts, Ontario	ODM OFR 5154	
Closs, L.G.	1976	Bedrock Geochemistry in parts of Halliday, Midlothian, Kelvin, Natal, Churchill + Macmurchy Tps., NTS 41P/NW, Sudbury & Timiskaming Districts, Ontario	ODM OFR 5177	
Closs, L.G. Sado, E.V.	1982	Bedrock and Overburden Geochemistry Investigations in the Midlothian Lake and Natal Lake Areas, NTS 41P/N, Sudbury & Timiskaming Districts, Ontario	OGS Study 24	
Collins, W.H.	1909	Preliminary Report on the Gowganda Mining Division, District of Nipissing, Ontario	*GSC Separate Report 1075 *GSC Map 1076	 1:63 360
Collins, W.H.	1914	The Geology of the Gowganda Mining Division	*GSC Memoir 33 *GSC Map 64A	 1:63 360
Easton, R.M.	1986	Geochronology of Ontario, Part 1: Compilation of Data	OFR 5592	179 pp.

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Ginn, R.M.	1964	Timmins-Kirkland Lake Sheet, Cochrane, Sudbury & Temiskaming Districts, Ontario, Geological Compilation Series	ODM Map 2046	1:253 440
GSC	1957	Aeromagnetic Map, Shining Tree, Ontario	GSC Map 285G	1:63 360
Gupta, V.K.	1981	Bouger Gravity and Generalized Geological Map of Gogama-Gowganda Area, NTS 41P, Timiskaming & Sudbury Districts, Ontario	OGS Map P.2481	1:100 000
Hunter & Assoc. Ltd.	1984	Peat and Peatland Evaluation of the New Liskeard Area, NTS 31M/12 + 41P/E, Timiskaming + 2 other Districts, Ontario	OGS OFR 5486	3 volumes
Jolly, W.T.	1978	Metamorphic History of the Archean Abitibi Belt	GSC Paper 78-10	pp. 63-78
Kretschmar, U. Kretschmar, D.	1980	Talc, Magnesite and Asbestos Deposits in the Kirkland Lake-Timmins Area, NTS 31M, 32D, 41O, 41P, 42A, 42B, Timiskaming + 2 AL Districts	OGS OFR 5310	
Kutina, Jan & Fabbri, Andrea	1971	Relationship of Structural Lineaments and Mineral Occurrences in the Abitibi area of the Canadian Shield	GSC Paper 71-9	36 pp.
Legun, A.	1984	Huronian Stratigraphy and Sedimentation in the Cobalt area, NTS 31M/W + 41P, Ontario	OGS OFR 5508	
Long, D.G.F. Leslie, C.A.	1986	The Placer Gold Potential of the Early Aphebian Gowganda Formation along the Northern Margin of the Cobalt Embayment, Ontario with Comments on Associated Concentrations of Silver & Copper	OGS OFR 5608	

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
MNR		Kelvin Township Claim Map	MNR Map Plan No. M.964	1" = 40 ch.
MNR		Ontario Basic Map Sheets	OBM Maps 20 17 52800 4700 20 17 52800 4800 20 17 52700 4700 20 17 52700 4800	1:20 000
OGS	1979	Airborne Gamma-Ray Spectrometry Maps and Profiles	OGS Geoph-Geoch Maps 80372-80410	1:250 000
Owsiacki, L. Anderson, D.P.	1988	Cobalt Resident Geologist's Area, Northeastern Region; in Report of Activities 1987, Regional and Resident Geologists, edited by C.R. Kustra Ontario Geological Survey	MP 138	pp.285-305
Park, W.A.	1907	The Geology of a District from Lake Timiskaming Northward	*GSC Summary Report 1904 Vol XVI, pt. A	pp.198-225
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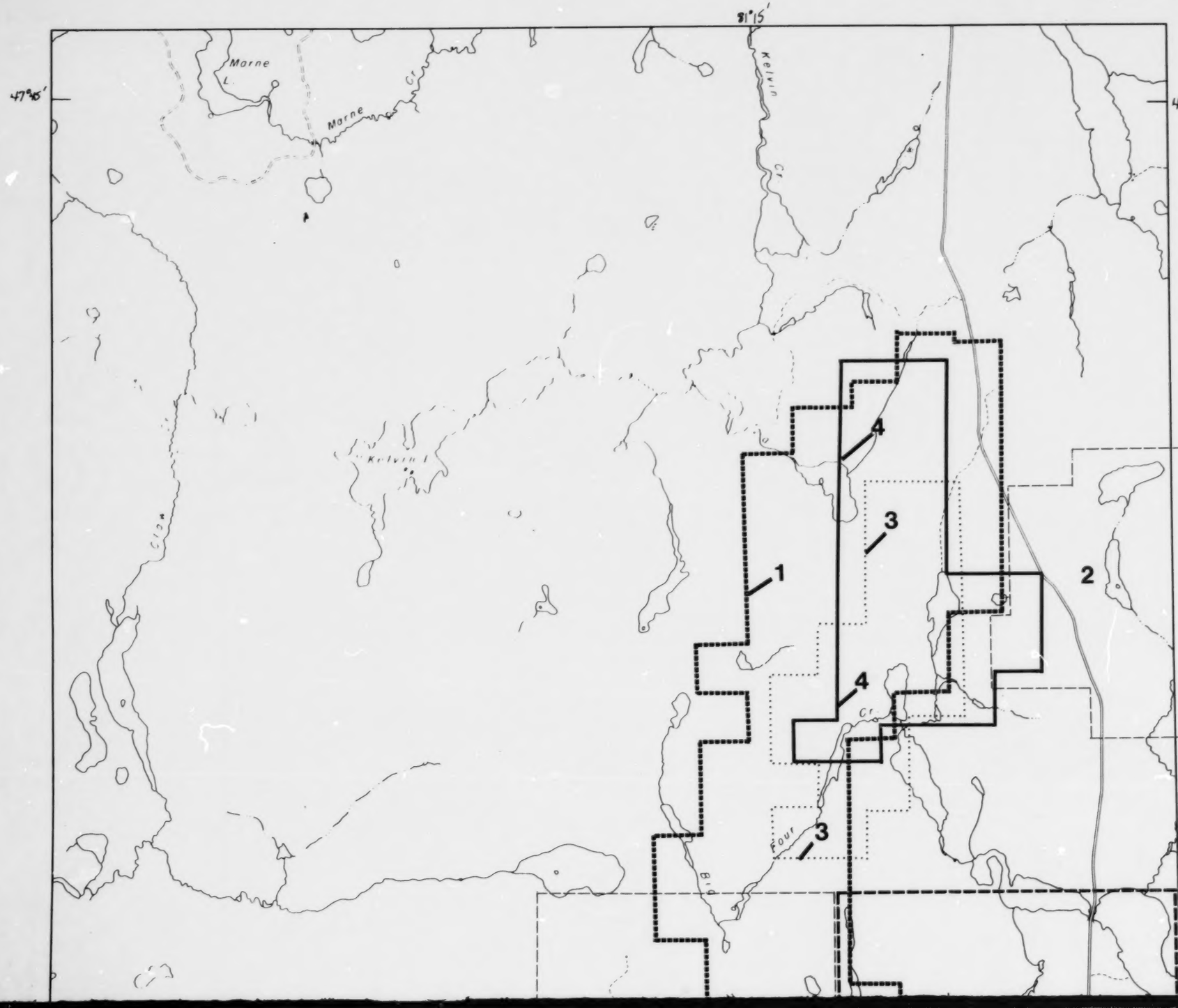


Ministry of Northern Development and Mines

Mines and Minerals Division

Ontario

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 500

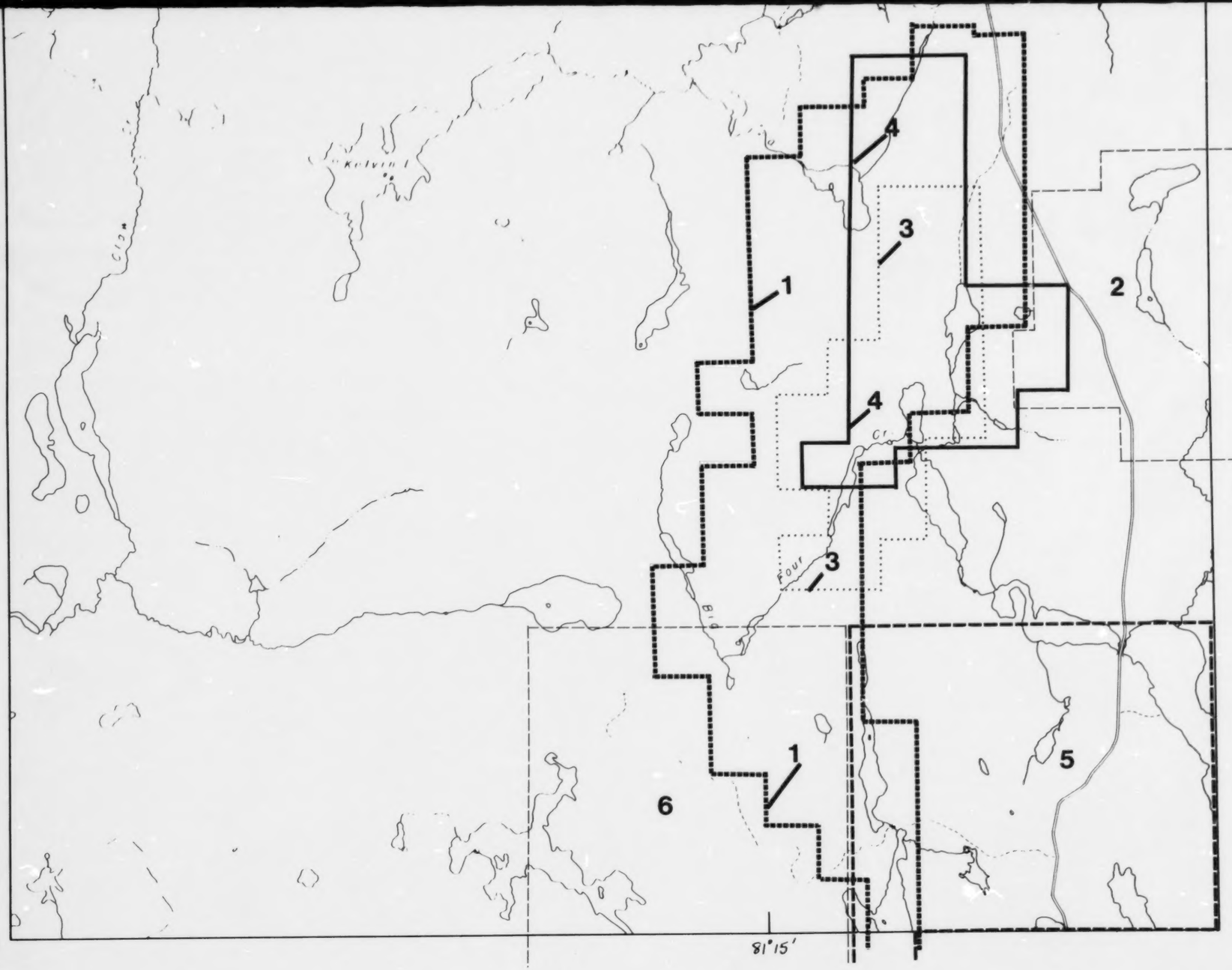
(Map 1 of 2)

KELVIN TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile



Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

EXPLORATION DATA FILE AREAS

- Reference number is always inside work area outlined. See listing in text pages.
- Small area of exploration
- File covers whole township or area

TYPES OF DATA SHOWN ON THIS MAP

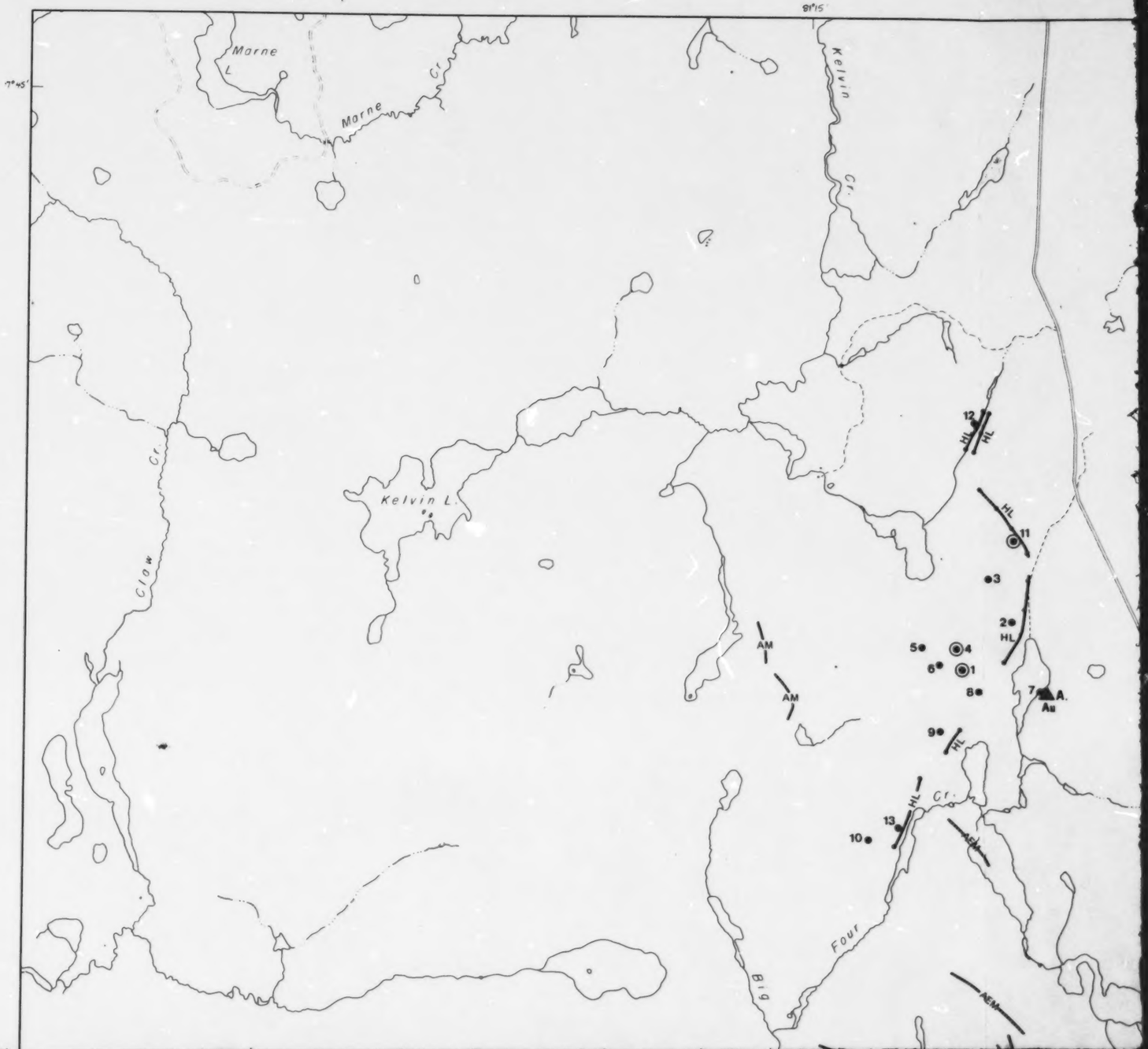
GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

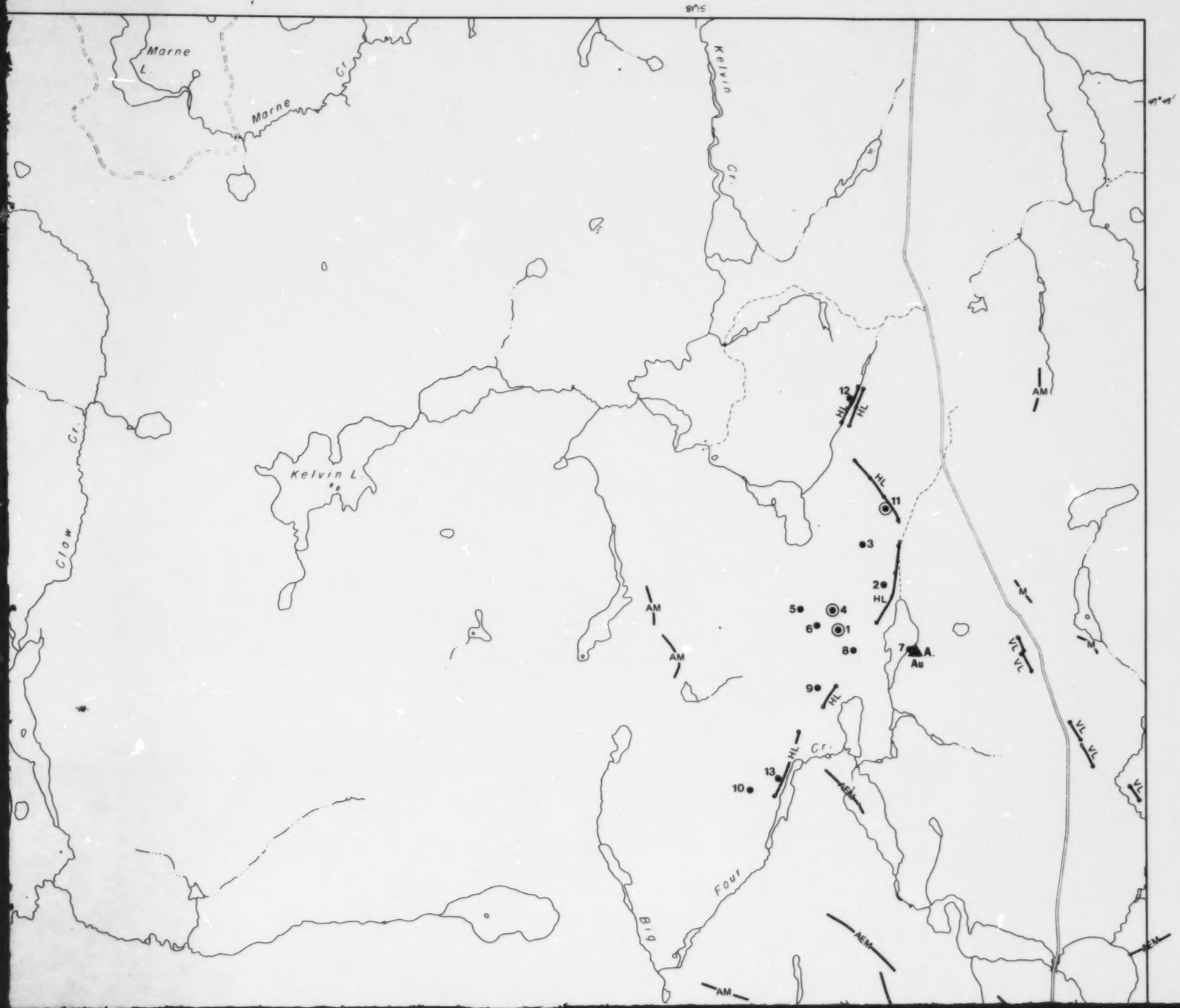
- ☐ ◆3 — Geochemical sample site, with reference number
- ☐ ◆3 — Area of geochemical sampling, with reference number
- ☐ ✶2 — Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

- ■ AM — Airborne magnetic anomaly
- ☐ Airborne electromagnetic anomaly Length of anomaly along flight line
- ■ AEM — Airborne electromagnetic anomaly Conductor axis: Location of flight lines uncertain
- ☐ Airborne electromagnetic anomaly Conductor axis: definite, probable, possible
- ☐ ARA — Airborne radiometric anomaly
- ■ M — Ground magnetic anomaly
- ■ VL — Ground electromagnetic anomaly (VL - Vertical loop; HL - Horizontal loop VLF - Very low freq.; Turam; JEM - Crone Em - 16)
- ☐ RA — Ground radiometric anomaly
- ☐ IP — Induced polarization anomaly
- ☐ SP — Self potential anomaly
- ☐ AFMAG — Audio-frequency magnetic anomaly (total intensity)
- ☐ R — Resistivity anomaly
- ☐ GR — Gravity anomaly

MISCELLANEOUS DATA





Ministry of Northern Development and Mines

Mines and Minerals Division

Ontario

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 500

(Map 2 of 2)

KELVIN TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- cp A. — Mineral occurrence at surface, with reference letter
- Au A. 84° — Mineral occurrence with shaft, depth given with reference letter
- Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- cp A. — Mineralized float with reference letter
- A. — Mineral occurrence in drillhole, with reference letter, and drillhole number

DRILLHOLES

- ●² — Location of single drillhole, with reference number
- ◉² — Location of closely spaced group of drillholes, with reference number

- Airborne magnetic anomaly
- Airborne electromagnetic anomaly
  Length of anomaly along flight line
- Airborne electromagnetic anomaly
  Conductor axis: Location of flight lines uncertain
- Airborne electromagnetic anomaly
  Conductor axis: definite, probable, possible
- Airborne radiometric anomaly
- Ground magnetic anomaly
- Ground electromagnetic anomaly
  (VL - Vertical loop; HL - Horizontal loop
  VLF - Very low freq.; Turam; JEM -
  Crone Em - 16)
- Ground radiometric anomaly
- Induced polarization anomaly
- Self potential anomaly
- Audio-frequency magnetic anomaly
  (total intensity)
- Resistivity anomaly
- Gravity anomaly

MISCELLANEOUS DATA

- Trenching, pit
- Adit
- Open pit
- Rock quarry
- Sand and/or gravel pit

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- cp A. — Mineral occurrence at surface, with reference letter
- Au A. 84' — Mineral occurrence with shaft, depth given with reference letter
- Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- cp A. — Mineralized float with reference letter
- A. — Mineral occurrence in drillhole, with reference letter, and drillhole number

DRILLHOLES

- ●² — Location of single drillhole, with reference number
- ◉² — Location of closely spaced group of drillholes, with reference number
- (?)² — Drillhole, exact location uncertain, with reference number
- Property with underground drillholes in this general area, with reference number
- ○² — Property with drillholes which have not been plotted on map, with reference number
- ⊕² — Reverse circulation drillhole; churn drilling, with reference number